

Title (en)

Fuse block with integral door sensing rotary disconnect

Title (de)

Sicherungsblock mit eingebauter rotierende Türwinkelkupplung

Title (fr)

Bloc disjoncteur avec un embrayage rotatif actionné par la porte

Publication

EP 1641007 A1 20060329 (EN)

Application

EP 05014306 A 20050630

Priority

US 95088704 A 20040927

Abstract (en)

A disconnect is coupled to a rotary shaft communicating with a door-mounted knob provides an operator on the shaft for engaging the door handle to detect closure of the door. The operator includes a pair of coupling mechanisms that control the transmission of torque between the operator and the shaft depending on whether the door is open or closed. Specifically, when the door is open, torque applied to the operator in both directions is transmitted to the shaft. If the door is open, torque applied to the operator is only transmitted in one direction to disconnect power through the disconnect unless the user performs a predetermined sequence of events to rotatably couple the operator to the shaft with respect to rotation in the opposite direction that connects power through the disconnect.

IPC 8 full level

H01H 9/22 (2006.01); **H01H 3/10** (2006.01); **H01H 3/58** (2006.01)

CPC (source: EP US)

H01H 9/22 (2013.01 - EP US); **H01H 3/10** (2013.01 - EP US); **H01H 3/58** (2013.01 - EP US)

Citation (search report)

- [DX] US 2004099515 A1 20040527 - HOUCK THEODORE JOHN [US]
- [A] DE 19545849 A1 19960905 - KLOECKNER MOELLER GMBH [DE]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 2005040019 A1 20050224; **US 7071427 B2 20060704**; CA 2509477 A1 20060327; CA 2509477 C 20120403; DE 602005016998 D1 20091119; EP 1641007 A1 20060329; EP 1641007 B1 20091007

DOCDB simple family (application)

US 95088704 A 20040927; CA 2509477 A 20050608; DE 602005016998 T 20050630; EP 05014306 A 20050630